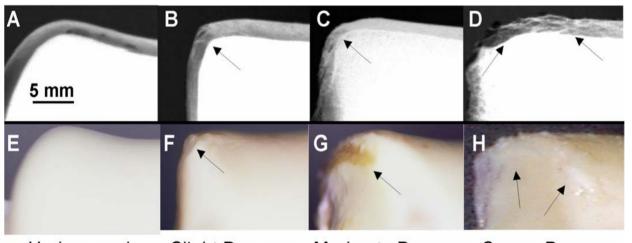
Diffraction Enhanced Imaging at NSLS-X15A



Sources of Contrast: DEI --- Normal Absorption Refraction Extinction -or- Scatter Rejection

Radiography...Normal Absorption



Undamaged

Slight Damage

Moderate Damage Severe Damage

Cartilage Imaging

Cartilage is normally not seen by radiograph.

DEI allows direct visualization of cartilage.

There is correlation between the DEI contrast and state of damage in the cartilage.

Images acquired at NSLS X15A, 2000